

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/000897

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08L33/04 C08K3/20 C08K3/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08L C08K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal , PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No |
|------------|---|----------------------|
| X | PATENT ABSTRACTS OF JAPAN vol. 016, no. 033 (C-0905), 28 January 1992 (1992-01-28) & JP 03 244643 A (FURUKAWA ELECTRIC CO LTD), 31 October 1991 (1991-10-31) abstract | 1-3, 7, 8 |
| X | PATENT ABSTRACTS OF JAPAN vol. 2000, no. 14, 5 March 2001 (2001-03-05) 6 JP 2000 313785 A (NIPPON SHOKUBAI CO LTD), 14 November 2000 (2000-11-14) cited in the application abstract | 1-3, 7, 8 |
| | ----- -/- | |



Further documents are listed in the continuation of box C



Patent family members are listed in annex

* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

12 October 2005

Date of mailing of the international search report

03 NOV 2005

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C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No |
|------------|---|----------------------|
| X | <p>PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) & JP 2000 230162 A (DAINIPPON INK & CHEM INC), 22 August 2000 (2000-08-22) cited in the application abstract</p> | 1-3, 7, 8 |
| X | <p>PATENT ABSTRACTS OF JAPAN vol. 2000, no. 15, 6 April 2001 (2001-04-06) & JP 2000 344846 A (NIPPON SHOKUBAI CO LTD), 12 December 2000 (2000-12-12) cited in the application abstract</p> | 1, 4 |
| X | <p>BP 0 296 566 A (HITACHI CABLE, LTD) 28 December 1988 (1988-12-28) example 11</p> | 1, 5 |
| X | <p>PATENT ABSTRACTS OF JAPAN vol. 2003, no. 05, 12 May 2003 (2003-05-12) & JP 2003 012867 A (DOW CORNING TORAY SILICONE CO LTD), 15 January 2003 (2003-01-15) cited in the application abstract</p> | 1, 5 |
| X | <p>PATENT ABSTRACTS OF JAPAN vol. 017, no. 426 (C-1094), 9 August 1993 (1993-08-09) & JP 05 093107 A (SUMITOMO BAKELITE CO LTD), 16 April 1993 (1993-04-16) cited in the application abstract</p> | 1, 6 |

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM POT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3,7,8 (partially), 3,7

directed to thermally conductive sheets comprising (A),
(B)=an organophosphorous component and (C)

2. claims: 1,2,4,8 (partially) and 4

directed to thermally conductive sheets comprising (A),
(B)=a triazine skeleton compound and (C)

3. claims: 1,2,8 (partially) and 5

directed to thermally conductive sheets comprising (A),
(B)=expanded graphite and (C)

4. claims: 1,2,8 (partially) and 6

directed to thermally conductive sheets comprising (A),
(B)=polyphenylene ether and (C)

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information on patent family members

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| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| JP 03244643 | A | 31-10-1991 | JP 2886244 B2 | 26-04-1999 |
| JP 2000313785 | A | 14-11-2000 | NONE | |
| JP 2000230162 | A | 22-08-2000 | NONE | |
| JP 2000344846 | A | 12-12-2000 | NONE | |
| BP 0296566 | A | 28-12-1988 | CA 1332487 C | 11-10-1994 |
| | | | DE 3851719 D1 | 10-11-1994 |
| | | | DE 3851719 T2 | 26-01-1995 |
| | | | US 4871787 A | 03-10-1989 |
| JP 2003012867 | A | 15-01-2003 | NONE | |
| JP 05093107 | A | 16-04-1993 | NONE | |